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NOTICE OF ALLOWANCE AND FEE(S) DUE

24116

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02/20/2009

BATTELLE MEMORIAL INSTITUTE 505 KING AVENUE COLUMBUS, OH 43201-2693 EXAMINER
HOGAN, JAMES SEAN
ART UNIT PAPER NUMBER

3752

DATE MAILED: 02/20/2009

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
Ī	10/541,681	04/12/2006	Beverly A. Piatt	13891US	4007	

TITLE OF INVENTION: SPRAY HEAD FOR ELECTROHYDRODYNAMIC SPRAY DEVICE AND ELECTROHYDRODYNAMIC SPRAYER SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	05/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE EEE and PURI ICATION EEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrected maintenance fee notificated to the control of the control o	correspondence includir ed below or directed oth	ig the ierwise	Patent, advance or in Block 1, by (a	ders and notification) specifying a new c	of m	pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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10/541,681	04/12/2006			Beverly A. Piatt		•		13891US	4007
ITTLE OF INVENTIO SYSTEM APPLN. TYPE	N: SPRAY HEAD FO	T	SUE FEE DUE	PUBLICATION FEE I		PREV. PAID ISSUE		TOTAL FEE(S) DUE	DATE DUE
	YES	1.5	\$755	\$300	JOE	\$0	TEE	\$1055	
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EXAM	INER		ART UNIT	CLASS-SUBCLASS	3				
HOGAN, JA 1. Change of corresponde			3752	239-690000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	h in 37 CFR 3.11. Comp	" Indicated. Use	ation form e of a Customer E PRINTED ON Telow, no assignee	data will appear on t	rnativ single or a t attor ll be p or typ he pa g an a	ely, firm (having as a gent) and the name neys or agents. If rorinted. e) tent. If an assignessignment.	membes of up no nam	er a 2ee is 3eentified below, the do	ocument has been filed for
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10/541,681	04/12/2006	Beverly A. Piatt	13891US	4007	
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505 KING AVENU	_	ART UNIT	PAPER NUMBER		
COLUMBUS, OH	43201-2693		3752		
		DATE MAILED: 02/20/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 379 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 379 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/541,681	PIATT ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JAMES S. HOGAN	3752	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS . This application is	n this application. If not included unication will be mailed in due cour	se. THIS
1. This communication is responsive to <u>amendment filed</u> .			
2. ☑ The allowed claim(s) is/are <u>1,2 and 6-30</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☑ None of the: 1. ☐ Certified copies of the priority documents have 		or (f).	
2. ☐ Certified copies of the priority documents have		on No	
3. ☐ Copies of the certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		from the
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	d III tills Hational stage application i	TOTT THE
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w(PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)	5 N.C. (1)	6 IB (
1. Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No.	ummary (PTO-413), /Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowan	ce
of Biological Material	9.	_·	
	/Len Tran/		
	Supervisory Pa	tent Examiner, Art Unit 3752	

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Art Unit: 3752

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John D. Reed on February 5, 2009.

The application has been amended as follows:

Claim 1 shall read;

1. (currently amended) A spray head for use with an electrohydrodynamic spray device, wherein said spray head comprises at least one nozzle configured to provide a charged aerosol from a liquid formulation, said nozzle comprising a manifold having at least one fluid entrance, a plurality of discrete fluid spray sites and a passage to establish fluid communication between said at least one fluid entrance and said plurality of fluid spray sites, said passage configured such that said liquid formulation traveling within said manifold travels a substantially equal distance from said at least one fluid entrance and in communication with a charged electrode to any one of said plurality of fluid spray sites.

Claim 3 is cancelled

Allowable Subject Matter

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Art Unit: 3752

1. Claims 1, 2 and 6-30 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or render obvious a electrohydrodynamic spray head that features a nozzle manifold containing a charged electrode in communication with sites to be sprayed, the manifold having equidistant outlets associated with the manifold where the charged and sprayed material travels equal distance from the fluid inlet to the sprayed sites.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. HOGAN whose telephone number is (571)272-4902. The examiner can normally be reached on Mon-Fri, 6:00a-3:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. H./ Examiner, Art Unit 3752